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| Name of COE | Royal Enfield-Centre of Excellence |
| COE In charge | Abhishek Kumar Raushan |
| COE Coordinator | Surender Singh, Assistant Professor |
| About COE | <p>Royal Enfield and JCBoseUST are jointly responsible for the implementation of RETCP in University in the following manner - To implement RETCP, ROYAL ENFIELD and JCBoseUST shall jointly establish a technical training cell called ROYAL ENFIELD SERVICE TRAINING CELL ('RESTC') within the campus of JCBoseUST;</p> <p>RESTC –</p> <ul style="list-style-type: none"> • The premise of RESTC should have the specifications of 2025 sq. ft and will be a full-fledged cell equipped (Classroom with 3ton AC) for imparting both theory and practical training and consisting of appropriate hardware; required equipment's; tech-ware; courseware and software. • For RESTC being operational, Royal Enfield shall facilitate by providing to University equipment's to be placed and installed in RESTC and the details of these equipment's have been annexed as Annexure A to MOU. • The RETCP training (including both theory and practical training) to be taught at the RESTC jointly by both Royal Enfield and University. For imparting the training at RESTC two representatives of Royal Enfield ('Trainers'), shall be available their full time to educate students, faculties and Other Personnel's. • During the Term of this MOU, the Trainers at RESTC shall for the RETCP training, run batches (one batch will be of five (05) days or 40 hrs) every week for educating and training the students and other Personnel's on RETCP. For 10 days (Two week) of the month Institute and Other Personnels will be trained and balance 10 days (two weeks) the Royal Enfield Personnel's will get trained at RESTC. |
| Lab Outcomes | <ol style="list-style-type: none"> 1. Knowledge of two-wheeler system 2. Knowledge of perodical maintenance schedule 3. Practical knowledge of different types and parts of engines. 4. Work practically on different engines of bikes 5. Understand the electrical parts of bikes |
| Name of Equipments/Facility | <ol style="list-style-type: none"> 1. Motorcycles 2. Aggregates 3. Training kit and tools |

4. Bike lifts
5. Compressor
6. Pneumatic lines
7. Spark plug cleaner
8. Parts washer
9. Engine Table
10. Vertical Panel with general tools
11. Special tools board with tool and projector

Lab Photographs





Scope of Research

1. Engine Management system
2. Fuel efficiency
3. Emission control system

Research Outcomes

Research projects UG, PG/Ph.D. students can work

Syllabus/ Content of Coverage under COE

In accordance with MOU, following is the Syllabus and Scheme regarding the theoretical training to be imparted at RECTP Training

Course 1- Basic course module

Basics of Automobile- Engine basics, how to interpret vehicle specification, importance of schedule service, how to conduct schedule services (inclusive of Battery, Spark plug, Front suspension, Engine tappet adjustment, usage of measuring instrument like Vernier, Micro meter, Multi meter ..etc)

After completion of courses, evaluation shall be conducted by the Trainers and all those who score 80% become eligible to qualify for next level of course 2 i.e. Expert Module

Course 2- Expert module

Engine overhauling process (3 types of engine- Hands on practice),

Carburettor function and over hauling, Frame assembly replacement procedure practical's, Basic Electrical circuits Likewise, after completion of the training, candidates will undergo evaluation and all qualified candidates (80% & above) shall be eligible for next level module.

Course 3- Guru Module

Covers Engine Management system, Electronic fuel injection system, ABS, Emission control system

How to do systematic way problem diagnosis through Fish bone diagram.